

REPORT ON BOILERS.

No. 22970

Inversuir
Entry

NOV 28 1938

Received at London Office

Date of writing Report 21st Nov. 1938 When handed in at Local Office

10

Port of

HAMBURG

No. in Survey held at
Reg. Book.

76500

on the Steel Single Screw Motor Tanker

INVERSUIR

Date, First Survey

20th June

Last Survey

9th November 1938

(Number of Visits

7

Tons

Gross 9456

Net 5561

Master

Built at

HAMBURG

By whom built Deutsche Werft A. G.

Yard No. 203

When built 1938

Engines made at

Hamburg

By whom made Maschinenfabrik Augsburg Nürnberg

Engine No. 690180 When made 1938

Boilers made at

HAMBURG

By whom made Deutsche Werft A. G.

Boiler No. 739 When made 1938

Nominal Horse Power

1000

Owners

Inver Tankers, Ltd.

Port belonging to

Dublin

WASTE HEAT LA-MONT DONKEY BOILER

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Headers: Bark & Co, Dortmund.

Manufacturers of Steel

Tubes: Mannesmannröhren-Werke AG, Remscheid.

(Letter for Record 5)

Total Heating Surface of Boilers

149 sq. metres

Is forced draught fitted

Coal or Oil fired exhaust gas heated

No. and Description of Boilers

one Waste Heat La-Mont Donkey Boiler Coil System

Working Pressure 180 lbs

Tested by hydraulic pressure to

325 lbs

Date of test 26.8.1938

No. of Certificate

700

Can each boiler be worked separately

no

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

one spring loaded

Area of each set of valves per boiler

per Rule

as fitted 35 mm², 962 mm²

Pressure to which they are adjusted 180 lbs

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers boiler in
tweendeck

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

1440 mm

Length

4370 mm

HEADERS

Shell plates

Material S-M-Steel

Tensile strength 50-60 kg/mm²

Thickness

70 mm

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

long. seams

Nos of coils: 25

Diameter of

coil tubes

circ. seams 32/26 mm

Thickness

3 mm

Pitch of rivets

Percentage of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

rivets

Working pressure of

tubes

16.25 kg/cm²

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

front

back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

At body of stay,

or

Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part,

or

Over threads

No. of threads per inch

Area supported by each stay

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Lloyd's Register
Foundation

W1196-0038

Working pressure by Rules
No. of threads per inch
Tubes: Material
Pitch of tubes
shell plate
Outer row rivet pitch at ends
Tensile strength
Diameter of rivet holes
Internal diameter
stays
How connected to shell
of rivets in outer row in dome connection to shell

Are the stays drilled at the outer ends
Area supported by each stay
External diameter
Working pressure by Rules
Section of compensating ring
Depth of flange if manhole flanged
Thickness of shell
Pitch of rivets
Working pressure by Rules
Inner radius of crown
Size of doubling plate under dome

Margin stays: Diameter
Working pressure by Rules
Thickness
No. of threads per inch
Manhole compensation: Size of opening in
No. of rivets and diameter of rivet holes
Steam Dome: Material
Description of longitudinal joint
Percentage of strength of joint
Thickness of crown
Working pressure by Rules
Diameter of rivet holes and pitch

Type of Superheater
Number of elements
Material of headers
the boiler be worked separately
Area of each safety valve
Rules
tubes
valves fitted to free the superheater from water where necessary

Manufacturers of
Internal diameter and thickness of tubes
Thickness
Can the superheater be shut off and
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Are the safety valves fitted with easing gear
Pressure to which the safety valves are adjusted
forgings and castings
and after assembly in place
Are drain cocks or

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with.

The foregoing is a correct description,
Manufacturer.

Dates of Survey while building
During progress of work in shops
During erection on board vessel
Are the approved plans of boiler and superheater forwarded herewith
Total No. of visits

Is this Boiler a duplicate of a previous case
If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
Material and workmanship of this La-Mont-donkey boiler coil system are of good quality. The materials used in the constructions are made at works recognized by the Committee and tested by the Society's Inspectors in accordance with the requirements of the Rules. This donkey boiler coil system having been made under Special Survey in conformity with the approved plan, the Secretary's letter and otherwise in compliance with the requirements of the Rules is eligible in my opinion to be classed with notation in the Register Book =
One Donkey Boiler (WT) 180 lbs/sq. inch pressure.

Thickness of adjusting washer of safety valve 4 mm.

Survey Fee
Travelling Expenses (if any) £
When applied for
When received

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned